

Master Syllabus

MAT 1130 - Mathematics in Health Sciences

Division: Science, Mathematics and Engineering

Department: Mathematics

Credit Hour Total: 3.0

Lecture Hrs: 3.0

Prerequisite(s): MAT 0050

Date Revised: January 2018

Course Description:

Solve health science applications; convert within and between metric, household and apothecary systems; read and interpret health science labels and graphs; calculate and apply statistical concepts; solve problems involving parenteral, pediatric and/or intravenous administration and dosage calculations. Traditional testing (proctored or in Testing Center) is used in all online sections.

General Education Outcomes:

- Critical Thinking/Problem Solving Competency

Course Outcomes:

Labels and Graphs

Read and interpret and/or complete labels and graphs related to health science.

Assessment Method: Locally developed exams

Performance Criteria:

Passing grade with a score of 70% or better on exams

Assessment Method: Simulations

Performance Criteria:

Scores of 70% or better on activities involving this outcome

Statistics

Calculate and apply appropriate statistical concepts such as mean, median and mode.

Assessment Method: Locally developed exams

Performance Criteria:

Passing grade with a score of 70% or better on exams

Assessment Method: Simulations

Performance Criteria:

Scores 70% or above on activities involving this outcome

Mathematical Computation

Accurately compute with fractions, decimals, percentages, ratios and proportions as needed for a variety of health science applications.

Assessment Method: Locally developed exams

Performance Criteria:

Passing grade with a score of 70% or better on exams

Assessment Method: Simulations

Performance Criteria:

Scores 70% or above on activities involving this outcome

Measurement Conversion

Convert appropriate units of measurement between and within the metric, household and apothecary systems and systems of time, temperature, length and weight.

Assessment Method: Locally developed exams

Performance Criteria:

Passing grade with a score of 70% or better on exams

Outline:

Compute with fractions, decimals, percentages, ratios and proportions as needed for health science applications.

Convert within and between metric, household and apothecary systems.

Read, interpret and complete health labels and graphs.

Calculate and apply statistical concepts.

Solve problems involving parenteral, pediatric and/or intravenous administration and dosage calculations.